

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

in re Patent Application of

Vernon Seguin et al.

Application No.: 10/716,001

Filed: November 18, 2003

For: CO₂ WAVEGUIDE LASER WITH

BERYLLIUM OXIDE WAVEGUIDES

Group Art Unit: 2828

Examiner: Unknown

INFORMATION DISCLOSURE **STATEMENT**

121 Spear Street, Suite 290 San Francisco, CA 94105 (415) 512-1312

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope, addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on April /6, 2004.

STALLMAN & POLLOCK LLP

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Dated: 04/16 /2004

Applicant(s) submit(s) herewith patents, publications or other information [attached hereto and listed on the attached Form PTO-1449 (modified)] of which they are aware, which they believe(s) may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

This Information Disclosure Statement:

- (a) accompanies the new patent application submitted herewith. 37 CFR § 1.97(a).
- (b) is filed within three months after the filing date of the application or within three months after the date of entry of the national stage of a PCT application as set forth in 37 CFR § 1.491.
- (c) as far as is known to the undersigned, is filed before the mailing date of a first Office Action on the merits, or before a first office action after filing a Request for Continued Examination under §1.114.
- (d) is filed after the first office action and more than three months after the application's filing date or PCT national stage date of entry filing but, as far as is known to the undersigned, prior to the mailing date of either a final rejection or a

Atty Docket No.: COHO-5150

	n	notice of allowance, whichever occurs fin	rst, and is acco	ompanied by either the fee	
	((\$180) set forth in 37 CFR § 1.17(p) or a	certification a	as specified in 37 CFR §	
	1	1.97(e), as checked below.			
	(e) is	is filed after the mailing date of either a f	final rejection	or a notice of allowance,	
	v	whichever occurred first, and the Issue F	ee has not bee	n paid, and is accompanie	d
	b	by the fee (\$130) set forth in 37 CFR § 1	.17(i)(1) and a	certification as specified	
	i	in 37 CFR § 1.97(e), as checked below.	This document	t is to be considered as a	
	p	petition requesting consideration of the in	nformation dis	sclosure statement.	
	[If either	er of boxes (d) or (e) is checked above, th	e following "c	certification" under 37 CFI	₹
§ 1.97((e) may n	need to be completed.] The undersigned	certifies that:		
	(f) 🗌 E	Each item of information contained in th	e information	disclosure statement was	
	c	cited in a communication mailed from a	foreign patent	office in a counterpart	
	f	foreign application not more than three n	nonths prior to	the filing of this	
	i	information disclosure statement.		·	
	(g) \[\] \]	No item of information contained in this	information d	isclosure statement was	
	c	cited in a communication mailed from a	foreign patent	office in a counterpart	
	f	foreign application or, to the knowledge	of the undersi	gned after making	
	r	reasonable inquiry, was known to any inc	dividual desig	nated in 37 CFR § 1.56(c)	
	n	more than three months prior to the filing	g of this inforn	nation disclosure statemen	ıt.
	A list of	f the patent(s) or publication(s) is set fort	th on the attacl	hed Form PTO-1449	
(Modif	fied).				
	A copy of	of the items on PTO-1449 (Modified) is	supplied here	with, except as noted	
below.	•				
	Those pa	patent(s) or publication(s) which are mark	ked with an as	terisk (*) in the attached	
form P	PTO-1449	9 (Modified) are not supplied because the	ey are (a) eithe	er U.S. Patents and this is	
an app	lication f	filed after June 30, 2003, or (b) were prev	viously cited b	y or submitted to the	
Office	in a prior	or application no, fil	ed	and relied upon in this	
applica	ation for a	an earlier filing date under 35 U.S.C. § 1	20.		
	A concis	ise explanation of relevance of the items	listed on form	PTO-1449 (Modified) is:	
	(k) 🛭 r	not given			
	(l)	given for each listed item			

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(m) given for only non-English language listed item(s) [Requir
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(n) is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references [copy attached].

The Examiner is reminded that a "concise explanation of the relevance" of the submitted items "may be nothing more than identification of the particular figure or paragraph of the patent or publication which has some relation to the claimed invention," MPEP § 609.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR § 1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR § 1.98 and MPEP § 609 and the Examiner is respectfully requested to consider the listed references.

The Commissioner is hereby authorized to charge our Deposit Account No. 50-1703, under Order No. COHO-5150, for any fees required in connection with the filing of this Information Disclosure Statement. A duplicate copy of this Notice is enclosed for this purpose. In particular, in the event that an Office Action has crossed in the mail with this Information Disclosure Statement, the Commissioner is authorized to charge the above-named deposit account for any fees required pursuant to CFR §§ 1.17(p) or 1.17(i)(1).

Respectfully submitted,

STALLMAN & POLLOCK LLP

Dated: April , 2004

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INFORMATION DISCLOSURE CITATION Use several sheets if necessary)

Docket Number (Optional) COHO-5150	Application Number 10/716,001
Applicant(s) Vernon Seguin et al.	
Filing Date	Group Art Unit
November 18, 2003	Unknown

U.S. PATENT DOCUMENTS

EXAMINER NITIAL	Ref	DOCUMENT NUMBER	DATE	Name	CLASS	SUBCLASS	FILING DATE
	*AA	4,373,202	02/08/1983	Laakmann et al.	372	64	09/24/1979
	*AB	4,493,087	01/08/1985	Laakman et al.	372	64	05/27/1982
_	*AC	5,353,293	10/04/1994	Shull	372	34	04/27/1993
	*AD	5,610,936	03/11/1997	Cantoni	372	93	09/28/1995
	*AE	US 2003/0156615	08/21/2003	Kennedy et al.	372	55	04/04/2002

FOREIGN PATENT DOCUMENTS

	DOCUMENT					TRA	NSLATION
REF /	Number	DATE	COUNTRY	CLASS	SUBCLASS	YES	No
AF V	WO 01/86767 A1	11/15/2001	PCT	H01S	3/10		

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

AG	J.L. Lachambre et al., "A transversely rf-excited CO ₂ waveguide laser", <i>Appl. Phys. Lett.</i> , Vol. 32, No. 10, May 15, 1978, pp. 652-653.
AH	R.L. Abrams et al., "Characteristics of Sealed-Off Waveguide CO ₂ Lasers", <i>IEEE Journal of Quantum Electronics</i> , Vol. QE-9, No. 9, September 1973, pp. 940-946.
Al	M. Khelkhal et al., "Infrared optical constants of polycrystalline boron nitride", <i>Applied Optics</i> , Vol. 32, No. 1, January 1, 1993, pp. 57-59.
AJ	G.M. Carter et al., "A high-power CO ₂ waveguide laser", Appl. Phys. Lett., Vol. 35, No. 2, July 15, 1979, pp. 129-130.
AK	D.R. Hall, "10-µm propagation losses in hollow dielectric waveguides", <i>Journal of Applied Physics</i> , Vol. 48, No. 3, March 1977, pp. 1212-1216.
AL	K.D. Laakmann et al., "Waveguides: characteristic modes of hollow rectangular dielectric waveguides", <i>Applied Optics</i> , Vol. 15, No. 5, May 1976, pp. 1334-1340.

Examiner	Date Considered				
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					